This syllabus contains the policies and expectations that the instructor has established for this course. Please read the entire syllabus carefully before continuing in this course. These policies and expectations are intended to create a productive learning atmosphere for all students. Unless you are prepared to abide by these policies and expectations, you risk losing the opportunity to participate further in the course.

Instructor: Dr. Malik Younsi (malik.younsi@stonybrook.edu)
Office: Math Tower 4-118
Office Hours: Tuesdays 8:30 - 10:00, Thursdays 8:30 - 10:00, and by appointment.

Course Description
This course is the second half of a two course introduction to real analysis. Topics to be covered include: Hilbert spaces, $L^p$ spaces, Existence and uniqueness of ODEs, Radon measures, Fourier analysis, Distribution theory. Additional topics will be chosen as time permits.

Important Dates
Observed Holidays and Breaks (Spring 2015)
- March 16–22: no classes (Spring recess).

Exam Dates
- Midterm Exam: To be announced on the Course Website at least one week in advance.
- Final Exam: Friday May 15, 2015 11:15-1:45 pm.

Required Resources
- Course Webpage: www.math.sunysb.edu/~myounsi/teaching/mat550/
- Lecture Notes: Attend lectures regularly and take your own notes.
- Textbook: Gerald B. Folland, Real Analysis: Modern Techniques and Their Applications, Second Edition, Wiley, John & Sons, 1999. (Reading and homework assignments will be assigned out of this textbook. Make sure you can access a copy of the textbook.)

About Attendance
Attendance is highly encouraged. Lectures may include material not in the textbook! The lectures may also present material in a different order than in the textbook.

Graded Components
- Homework – 40% of course average
  There will be a homework assignment due in class on most Thursdays. Homework assignments will be posted on the course webpage.
- Midterm Exam – 30% of course average
  There will be one closed book, closed notes midterm exam in class. The exam will be scheduled during the course, with the exam date posted at least one week in advance on the course webpage.
- Final Exam – 30% of course average
  There will be one closed book, closed notes final exam as scheduled by the university on Friday May 15, 2015 11:15-1:45 pm.

Your course average will be determined by a weighted average of the graded components above. Your final grade for the class will be based on your course average and on your participation.

Late Homework Policy
A student’s homework assignment shall be considered late if it is not turned in to the instructor by the end of lecture on the due date. Late homework assignments may be turned in to the instructor by the end of the first lecture after the due date, but will be penalized 40%. Late homework assignments will not be accepted more than one lecture past the due date.

Missed Exam Policy
No make-up exams will be given. If a student misses a midterm exam, then the student’s final exam grade will be substituted for the missed midterm. A student must sit the final exam at the scheduled time in order to receive a passing grade in the class.

Classroom Policies
Students are expected to arrive to lecture on time and remain until the lecture is concluded. (Leaving early creates distraction and is disrespectful to the instructor and your fellow students.) Cell phones should be silenced for the duration of the lecture. Tablet and laptop computers should not be used during lecture, except for taking notes.

Disability Support Services
If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact Disability Support Services (631) 632-6748 or studentaffairs.stonybrook.edu/dss/
They will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential. Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and Disability Support Services. For procedures and information go to the following website:
www.sunysb.edu/facilities/ehs/fire/disabilities

Academic Integrity
Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person’s work as your own is always wrong. Faculty are required to report any suspected instance of academic dishonesty to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at
www.stonybrook.edu/uaa/academicjudiciary/

Critical Incident Management
Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, and/or inhibits students’ ability to learn.

Syllabus Revision
The standards and requirements set forth in this syllabus may be modified at any time by the course instructor. Notice of such changes will be by announcement in class and changes to this syllabus will be posted on the course website.

This syllabus was last revised on January 21, 2015.